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 - 1 FILE BIOENG
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 - 2 FILE CAPLUS
 - 2 FILE DGENE -
 - FILE EMBASE
 - 1 FILE ESBIOBASE
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- 1 FILE IFIPAT
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- 1 FILE MEDLINE
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- 1 FILE SCISEARCH
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- 45 FILE USPAT2
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- L1 OUE MUTANT AND RHODOCOCCUS AND LYSOZYME

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F4			2 .	CAPLUS
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F6			2	TOXCENTER
F 7			1	BIOENG
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=> mutant and Rhodococcus and lysozyme 11 MUTANT AND RHODOCOCCUS AND LYSOZYME L2

=> dup remove ENTER L# LIST OR (END):12 DUPLICATE IS NOT AVAILABLE IN 'DGENE'. ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE PROCESSING COMPLETED FOR L2 4 DUP REMOVE L2 (7 DUPLICATES REMOVED) L3

=> d ti 1-4

- ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1 L3
- Characterization of LtsA from Rhodococcus erythropolis, an TIenzyme with glutamine amidotransferase activity
- ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN Ь3
- TI Lysozyme-susceptible Rhodococcus mutant
- L3 ANSWER 3 OF 4 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- ΤI Mutated Rhodococcus strain more sensitive to lysozyme than the wild type is useful for expressing and recovering foreign proteins.
- ANSWER 4 OF 4 DGENE COPYRIGHT 2007 The Thomson Corp on STN L3
- TI Mutated Rhodococcus strain more sensitive to lysozyme than the wild type is useful for expressing and recovering foreign proteins.

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1 L3 AB The nocardioform actinomycete Rhodococcus erythropolis has a characteristic cell wall structure. The cell wall is composed of arabinogalactan and mycolic acid and is highly resistant to the cell wall-lytic activity of lysozyme (muramidase). In order to improve the isolation of recombinant proteins from R. erythropolis host cells (N. Nakashima and T. Tamura, Biotechnol. Bioeng. 86:136-148, 2004), we isolated two mutants, L-65 and L-88, which are susceptible to lysozyme treatment. The lysozyme sensitivity of the mutants was complemented by expression of Corynebacterium glutamicum ltsA, which codes for an enzyme with glutamine amidotransferase activity that results from coupling of two reactions (a glutaminase activity and a synthetase activity). The lysozyme sensitivity of the mutants was also complemented by ltsA homologs from Bacillus subtilis and Mycobacterium tuberculosis, but the homologs from Streptomyces coelicolor and Escherichia coli did not complement the sensitivity. This result suggests that only certain LtsA homologs can confer lysozyme resistance. Wild-type recombinant LtsA from R. erythropolis showed glutaminase activity, but the LtsA enzymes from the L-88 and L-65 mutants displayed drastically reduced activity. Interestingly, an ltsA disruptant mutant, which expressed the mutated LtsA, changed from lysozyme sensitive to lysozyme resistant when NH4Cl was added into the culture media. The glutaminase activity of the LtsA mutants inactivated by site-directed mutagenesis was also restored by addition of NH4Cl, indicating that NH3 can be used as an amide donor mol. Taken together, these results suggest that LtsA is critically involved in mediating lysozyme resistance in R. erythropolis cells.

AN 2005:330029 CAPLUS

DN 143:22102

TI Characterization of LtsA from Rhodococcus erythropolis, an enzyme with glutamine amidotransferase activity

AU Mitani, Yasuo; Meng, Xian Ying; Kamagata, Yoichi; Tamura, Tomohiro

CS Proteolysis and Protein Turnover Research Group, Research Institute of Genome-Based Biofactory, National Institute of Advanced Industrial Science and Technology (AIST), Toyohira-ku, Japan

SO Journal of Bacteriology (2005), 187(8), 2582-2591 CODEN: JOBAAY; ISSN: 0021-9193

PB American Society for Microbiology

DT Journal

LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

AB Two lysozyme-susceptible R. erythropolis mutants are prepared from parental R. erythropolis JCM3210 by UV irradiation These lysozyme-susceptible R. erythropolis mutants have comparable ampicillin resistance and genetic transformation rate to that of the parental strain. These lysozyme-susceptible R. erythropolis mutants are useful for recombinant manufacture and isolation of proteins. Recombinant manufacture of proline iminopeptidase (PIP) with the lysozyme-susceptible R. erythropolis mutants was shown.

AN 2004:183006 CAPLUS

DN 140:178228

TI Lysozyme-susceptible Rhodococcus mutant

IN Mitani, Yasuo; Nakashima, Nobutaka; Tamura, Tomohiro

PA National Institute of Advanced Industrial Science and Technology, Japan

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2 DT Patent LA Japanese FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. ----_____ ______ ______ PΙ WO 2004018651 A1 20040304 WO 2003-JP10342 20030814 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG JP 2004073116 20040311 JP 2002-239554 Α 20020820 B2 20070131 JP 3876310 20040311 AU 2003-257852 AU 2003257852 A1 20030814 US 2006166312 **A1** 20060727 US 2005-524630 20050216 PRAI JP 2002-239554 Α 20020820 WO 2003-JP10342 W 20030814 RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 3 OF 4 DGENE COPYRIGHT 2007 The Thomson Corp on STN T.3 AB The invention relates to a mutated Rhodococcus strain that is more sensitive to lysozyme than the wild type. The strain is preferably Rhodococcus erythropolis L-65 FERM BP-8443 or L-88 FERM BP-8444. A method is provided for producing proteins by expressing a foreign protein in these cells and lysing them. The method is useful for producing proteins using transformed Rhodococcus cells. The proteins can be extracted and recovered easily. The present sequence represents the nucleotide sequence of plasmid pHN170. DGENE ΑN ADL71919 DNA Mutated Rhodococcus strain more sensitive to lysozyme ΤI than the wild type is useful for expressing and recovering foreign proteins. IN Mitani Y; Nakashima N; Tamura T NAT INST ADVANCED IND SCI & TECHNOLOGY. PA (NAAD-N) PΙ WO 2004018651 A1 20040304 AΙ WO 2003-JP10342 20030814 JP 2002-239554 PRAI 20020820 DT Patent LA Japanese 2004-238975 [22] os Nucleotide sequence of plasmid pHN170, SEQ ID 2. DESC L3ANSWER 4 OF 4 DGENE COPYRIGHT 2007 The Thomson Corp on STN AB The invention relates to a mutated Rhodococcus strain that is more sensitive to lysozyme than the wild type. The strain is preferably Rhodococcus erythropolis L-65 FERM BP-8443 or L-88 FERM BP-8444. A method is provided for producing proteins by expressing a foreign protein in these cells and lysing them. The method is useful for producing proteins using transformed Rhodococcus cells. The proteins can be extracted and recovered easily. The present sequence represents the nucleotide sequence of plasmid pHN144. ANADL71918 DNA DGENE TIMutated Rhodococcus strain more sensitive to lysozyme than the wild type is useful for expressing and recovering foreign

NAT INST ADVANCED IND SCI & TECHNOLOGY.

proteins.

(NAAD-N)

Mitani Y; Nakashima N; Tamura T

IN

PΔ

36

AI WO 2003-JP10342 20030814 PRAI JP 2002-239554 20020820

DT Patent

PΙ

LA Japanese

OS 2004-238975 [22]

DESC Nucleotide sequence of plasmid pHN144, SEQ ID 1.

=> mutant and Rhodococcus

L4 1527 MUTANT AND RHODOCOCCUS

=> mutant (w) Rhodococcus

L5 46 MUTANT (W) RHODOCOCCUS

=> dup remove
ENTER L# LIST OR (END):15
DUPLICATE IS NOT AVAILABLE IN 'DGENE'.
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PROCESSING COMPLETED FOR L5
L6 28 DUP REMOVE L5 (18 DUPLICATES REMOVED)

=> d ti 1-28

- L6 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Bioproduction of astaxanthin using mutant carotenoid ketolase and carotenoid hydroxylase genes
- L6 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Mutant Rhodococcus dehalogenase and functionalized chloroalkane substrates useful for covalent tethering of functional groups to proteins
- L6 ANSWER 3 OF 28 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN
- TI Catalytic diversity of fatty acid desaturases
- L6 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
- TI Rapid evolution of reversible denaturation and elevated melting temperature in a microbial haloalkane dehalogenase
- L6 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
- TI Substrate specificity of regiospecific desaturation of aliphatic compounds by a mutant Rhodococcus strain
- L6 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
- TI A repeat-batch membrane bioreactor with a phase inversion for the desaturation of isopropyl palmitate by a mutant Rhodococcus strain
- L6 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
- TI Regiospecific internal desaturation of aliphatic compounds by a mutant Rhodococcus strain
- L6 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5
- TI Late Events in the Assembly of 20S Proteasomes
- L6 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Continuous process for biocatalytic desulfurization of sulfur-bearing heterocyclic molecules
- L6 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Mutant microorganisms useful for cleavage of organic C-S bonds

- L6 ANSWER 11 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 12 OF 28 DGENE. COPYRIGHT 2007 The Thomson Corp on STN
- TI New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 13 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 14 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 15 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 16 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 17 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 18 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- L6 ANSWER 19 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 20 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 21 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 22 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.

- L6 ANSWER 23 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 24 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 25 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 26 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 27 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- L6 ANSWER 28 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.
- => d ab bib 27, 18, 7, 6, 5, 2
- ANSWER 27 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN L6 AB The invention relates to a novel modified protein which has nitrile hydratase activity. The protein of the invention has the amino acids at position 24 (Phe), 89 (Ile), 92 (Glu), 93 (Glu), 96 (His), 103 (Glu), 167 (Asn) and 225 (Tyr) or (b) 42 (Asn), 80 (Ala), 118 (Ala) and 132 (Asp) of a fully defined sequence of 229 or 203 amino acids as given in the specification, respectively, which are substituted by one or more amino acids, and has nitrile hydratase activity. The invention further comprises: a DNA sequence encoding the nitrile hydratase protein, comprising a fully defined sequence of 690 or 612 nucleotides as given in the specification; a vector comprising the polynucleotide; a host cell comprising the vector; and a nitrile hydratase protein production method, which involves culturing the host cell and extracting the nitrile hydratase protein from the culture. The nitrile hydratase protein or host cell are useful for producing an amide compound, which involves culturing the host cell, treating the nitrile hydratase protein extracted from the host cell with a nitrile compound, and extracting the amide compound. The nitrile hydratase protein is useful for producing an amide compound e.g., acrylamide. This sequence represents a mutant Rhodococcus nitrile hydratase protein of the invention.
- AN ADR15442 protein DGENE
- TI Novel nitrile hydratase protein having improved heat resistance, useful for producing amide compound e.g., acrylamide.
- PA (MITR) MITSUBISHI RAYON CO LTD.
- PI JP 2004222538 A 20040812 . 34
- AI JP 2003-11471 20030120 PRAI JP 2003-11471 20030120
- DT Patent
- LA Japanese
- OS 2004-585597 [57]
- DESC Rhodococcus rhodochrous J-1 nitrile hydratase mutant protein, E92K.
- L6 ANSWER 18 OF 28 DGENE COPYRIGHT 2007 The Thomson Corp on STN
- AB This invention describes a novel mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, where the mutant

endoglycoceramidase catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate. The synthetic activity is increased and the hydrolytic activity is decreased compared to that of the corresponding wild-type endoglycoceramidase. The invention also describes a) a nucleic acid that comprises a nucleotide sequence that encodes the mutant endoglycoceramidase; b) an expression vector comprising the nucleic acid; c) a host cell comprising the expression vector; d) a method of producing a mutant endoglycoceramidase; e) a mutant endoglycoceramidase comprising an amino acid sequence of any one of AEE92608-AEE92619; f) making a mutant endoglycoceramidase having enhanced synthetic activity in comparison to a corresponding wild-type endoglycoceramidase comprising modifying the nucleophilic carboxylate amino acid residue in a corresponding wild-type endoglycoceramidase; g) synthesizing a glycolipid by contacting a donor substrate comprising a saccharide moiety and an acceptor substrate with a mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, under conditions where the endoglycoceramidase catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate and h) a reaction mixture comprising the mutant endoglycoceramidase, a donor substrate comprising a saccharide moiety and an acceptor substrate. The enzyme has had its native signal peptide sequence removed. In synthesizing a glycolipid, the donor substrate is an alpha-modified glycosyl donor of anomeric configuration opposite the natural glycosidic linkage. The donor substrate is a glycosyl fluoride. The acceptor substrate is an aglycone. The acceptor substrate is a sphingosine or a sphingosine analog. The sphingosine is selected from Derythro-sphingosine, D-erythro-sphinganine, L-threo-sphingosine, L-threodihydrosphingosine, D-erythro-phytosphingosine, or N-ocatanoyl-D-erythrosphingosine. The acceptor substrate is a ceramide. The glycolipid is selected from a glycosphingolipid, a ganglioside and a cerebroside. The mutant endoglycoceramidase is useful for synthesizing glycolipids. This sequence represents a mutant Rhodococcus sp. endoglycoceramidase II.

AN AEE92582 protein DGENE

New mutant endoglycoceramidase having a modified nucleophilic carboxylate amino acid residue, which catalyzes the transfer of a saccharide moiety from a donor substrate to an acceptor substrate, useful for synthesizing glycolipids.

IN Johnson K F; Defrees S; Withers S; Vaughan M

PA (NEOS-N) NEOSE TECHNOLOGIES INC.

(UYBR-N) UNIV BRITISH COLUMBIA IND LIAISON OFFICE.

PI WO 2005118798 A2 20051215 125

AI WO 2005-US19451 20050601 PRAI US 2004-576316P 20040601 US 2004-626791P 20041110 US 2005-666765P 20050329

DT Patent

LA English

OS 2006-039466 [04]

CR GENBAN:; AAB67050

DESC Rhodococcus sp.mutant endoglycoceramidase II SEQ ID NO 21.

- L6 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
- AB A mutant Rhodococcus strain lacking the ability to utilize 1-chlorohexadecane was found to cis-desaturate aliphatic compds., such as 1-chlorohexadecane, n-hexadecane, and heptadecanonitrile, yielding corresponding products with a double bond mainly at the ninth carbon from the terminal Me groups. A new oxidative pathway involving the cis-desatn. step was suggested for alkane utilization by Rhodococcus spp.
- AN 1999:785105 CAPLUS
- DN 132:119706
- TI Regiospecific internal desaturation of aliphatic compounds by a mutant Rhodococcus strain
- AU Koike, Kenzo; Ara, Katsutoshi; Adachi, Shigehito; Takigawa, Hirofumi;

- Mori, Hajime; Inoue, Shiqeo; Kimura, Yoshiharu; Ito, Susumu
- CS Tochigi Research Laboratories of Kao Corporation, Tochigi, 321-3497, Japan
- SO Applied and Environmental Microbiology (1999), 65(12), 5636-5638 CODEN: AEMIDF; ISSN: 0099-2240
- PB American Society for Microbiology
- DT Journal
- LA English
- RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
- As repeat-batch membrane bioreactor was constructed for the novel bioconversion of iso-Pr hexadecanoate to iso-Pr cis-6-hexadecenoate by a Rhodococcus mutant. The addition of glutamate, thiamine, and MgSO4 was very effective in improving not only the rate and yield of the bioconversion but also the maintenance of desatn. activity during cell recycling. An oil-in-water (O/W) type emulsion of the reaction medium was inverted to a water-in-oil (W/O) type by discharging the water phase from the reaction mixture. The continuous oil phase containing the product could effectively be recovered through a hydrophobic hollow-fiber module. By decreasing the oil-to-water ratio upon addition of fresh medium, the medium was spontaneously inverted again to an O/W type emulsion to proceed with the next conversion. The batch reaction coupled with the phase inversion could be repeated more than 13 times for over about 300 h operation. Finally, a highly purified product was obtained with high yield by the urea adduct procedure.
- AN 2000:505086 CAPLUS
- DN 133:192039
- TI A repeat-batch membrane bioreactor with a phase inversion for the desaturation of isopropyl palmitate by a mutant Rhodococcus strain
- AU Koike, Kenzo; Takeuchi, Keiji; Mino, Haruya; Takaiwa, Mikio; Tohoh, Tetsuji; Tadokoro, Takaaki; Tsutoh, Keiichi; Ito, Susumu
- CS Tochigi Research Laboratories of Kao Corporation, Tochigi, 321-3497, Japan
- SO Journal of Biotechnology (2000), 80(2), 101-107 CODEN: JBITD4; ISSN: 0168-1656
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
- AB Substrate specificity of cis-desatn. of aliphatic compds. by resting cells of a mutant, Rhodococcus sp. strain KSM-MT66, was examined Among substrates tested, the rhodococcal cells were able to convert n-alkanes (C13-C19), 1-chloroalkanes (C16 and C18), Et fatty acids (C14-C17) and alkyl (C1-C4) esters of palmitic acid to their corresponding unsatd. products of cis configuration. The products from n-alkanes and 1-chloroalkanes had a double bond mainly at the 9th carbon from their terminal Me groups, and the products from acyl fatty acids had a double bond mainly at the 6th carbon from their carbonyl carbons.
- AN 2000:397955 CAPLUS
- DN 133:174453
- TI Substrate specificity of regiospecific desaturation of aliphatic compounds by a mutant Rhodococcus strain
- AU Koike, Kenzo; Takaiwa, Mikio; Kimura, Yoshiharu; Inoue, Shigeo; Ito, Susumu
- CS Tochigi Research Laboratories of Kao Corporation, Haga, 321-3497, Japan
- SO Bioscience, Biotechnology, and Biochemistry (2000), 64(5), 1064-1066 CODEN: BBBIEJ; ISSN: 0916-8451
- PB Japan Society for Bioscience, Biotechnology, and Agrochemistry
- DT Journal
- LA English

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN L6 A mutant hydrolase optionally fused to a protein of interest is provided. AB Thus, Rhodococcus haloalkane dehalogenase DhaA with His-272 substituted with Phe is capable of forming a bond with a chloroalkane substrate for the corresponding nonmutant (wild-type) hydrolase which is more stable than the bond formed between the wild-type hydrolase and the substrate. The chloroalkane substrate contains a functional group which binds Ca2+ or K+ , or Na+, is pH sensitive, is a radionuclide, is electron opaque, is a chromophore or fluorophore, is a MRI contrast agent, is a substance that fluoresces in the presence of NO, or is sensitive to reactive oxygen. Substrates for hydrolases comprising one or more functional groups are synthesized comprising TAMRA-, FAM-, and ROX.5-C14H24O4-Cl or biotin-C18H32O4-Cl, as methods of using the mutant DhaA and the substrates of the invention for cell imaging in vivo are provided. Mutant Staphylococcus aureus β -lactamase (blaZ)-based tethering of functional groups is also demonstrated. Also provided is a fusion protein capable of forming a stable bond with a substrate and cells which express the fusion protein. AN 2004:698213 CAPLUS DN 141:221282 ΤI Mutant Rhodococcus dehalogenase and functionalized chloroalkane substrates useful for covalent tethering of functional groups to proteins Wood, Keith V.; Los, Georgyi V.; Bulleit, Robert F.; Klaubert, Dieter; IN Mcdougall, Mark; Zimprich, Chad PA Promega Corporation, USA SO PCT Int. Appl., 185 pp. CODEN: PIXXD2 Patent DT English LA FAN.CNT 2 KIND DATE APPLICATION NO. PATENT NO. DATE -----------______ ----_____ WO 2004072232 20040826 WO 2004-US2607 ΡI A2 20040130 WO 2004072232 Α9 20041014 **A3** WO 2004072232 20050127 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NIRW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2004-211584 AU 2004211584 **A1** 20040826 20040130 CA 2004-2514564 20050726 CA 2514564 **A1** 20040130 EP 2004-707032 EP 1594962 A2 20051116 20040130 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK CN 1764721 Α 20060426 CN 2004-80008194 20040130 IN 2005DN03867 Α 20070427 IN 2005-DN3867 20050830

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